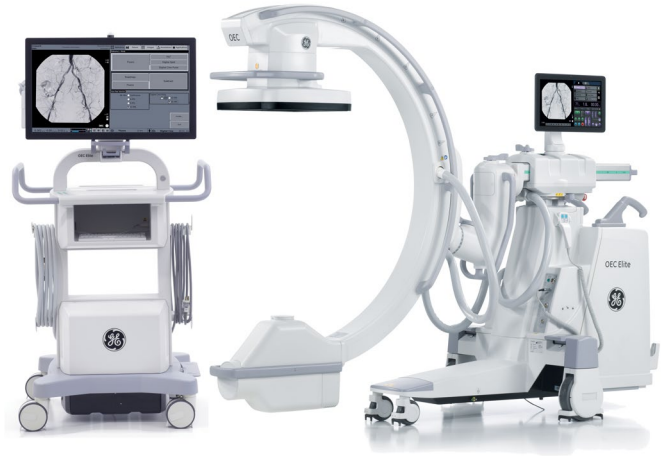
# Focusing on sustainability in surgical imaging solutions

**OEC Elite CFD**
Premium mobile C-arm



GE HealthCare

# Creating a more sustainable future requires us to care for the planet and its inhabitants

It is essential that we continue to drive progress toward early, precise, and accessible diagnosis and treatment of more patients. For the planet, it is critical that we do so with a reduced impact on precious and rare resources that are imperative to life. We believe that the advancement of precision medicine, greater digitization of healthcare, and increased access to quality care are fundamental to accomplishing this goal.

We support carbon policies that reduce greenhouse gas emissions and promote sustainable development. GE HealthCare has a goal to achieve net zero by 2050. An interim goal is to reduce our operational emissions (Scope 1 and 2) by 42%* and our Scope 3 emissions from purchased goods and services, upstream transportation and distribution, business travel, and use of sold products by 25%** by 2030 compared to a 2022 baseline. In 2024, we received validation on our updated goals from the Science Based Targets initiative (SBTi), a group of visionary corporate leaders taking ambitious climate action. As a result of these efforts, we want to enable a more sustainable health system by addressing not only the environmental impacts of our products but also the challenges healthcare professionals and their patients face with resilient, digital solutions.

**We have a goal to achieve net zero emissions by 2050.**

**We've set interim goals to reduce Scope 1 and 2 emissions by 42% and Scope 3 emissions by 25%* by 2030**.**

* from a 2022 baseline year.
** includes purchased goods and services, upstream transportation and distribution, business travel, and use of sold products from a 2022 baseline year.

# Leading a new era in sustainability for a more resilient tomorrow

We’re creating a world where healthcare has no limits, helping to improve access to care and enable better patient outcomes.

**Environmental**
Using fewer resources for a healthier planet.

**Digital**
Transforming healthcare through innovation.

**Resilience**
Building flexibility and dependability across healthcare systems.

# Helping to create a more sustainable tomorrow

Our OEC Elite CFD C-arm and its services help ensure clinicians and the patients they serve have the technology necessary to create a more sustainable and resilient tomorrow.

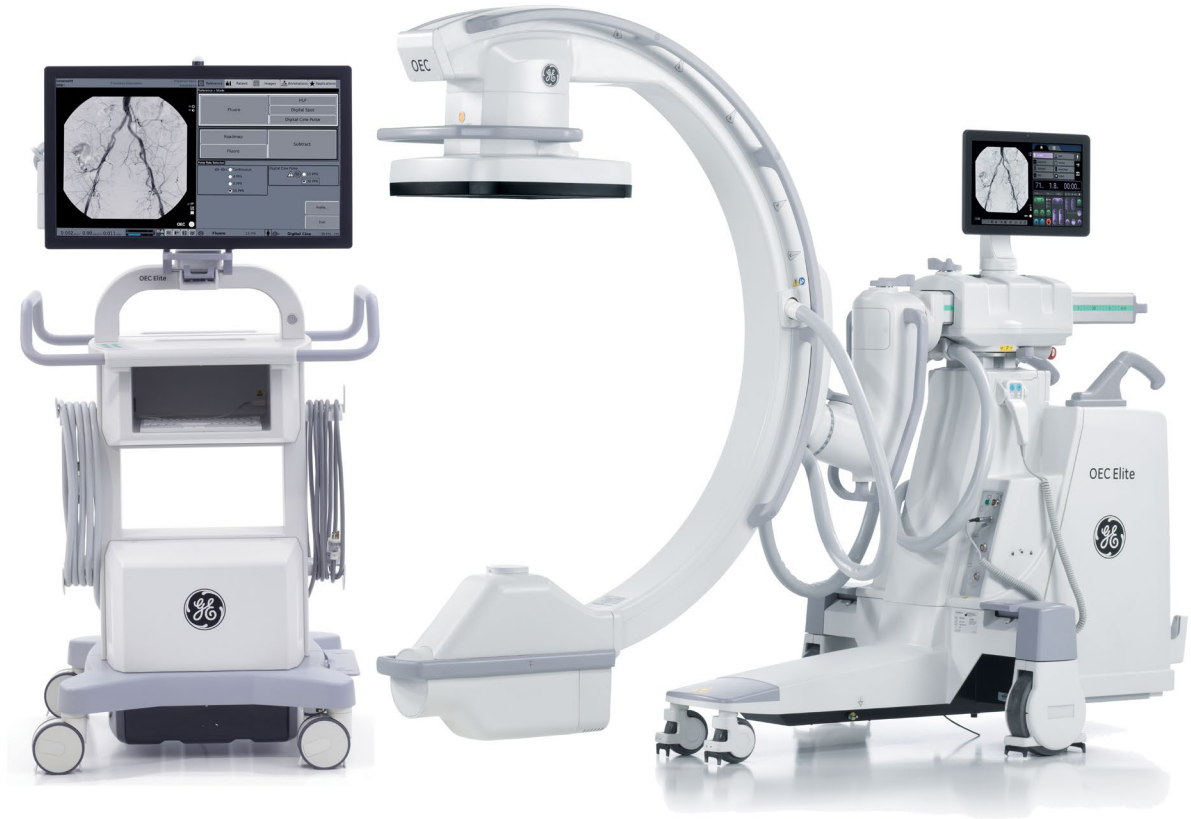
**Reducing environmental impact**

- Up to 84% of the C-arm materials are recyclable.[1]
- OEC Elite CFD conforms to international standards for environmental design, hazardous substance reduction, and electronic waste management.

**Improving care**

- Energy utilization operates on single-phase, cord-connected, standard wall power.
- Utilizes internal batteries and a battery charger buffer to manage X-ray generator energy demand.
- Enhances cardiovascular imaging with eNR for equivalent image appearance of 30 kW power.[2]
- Less radiation and power is needed with Live Zoom, which enables up to 4X zoom during fluoro or cine with no change in dose.

[1] Data on file. GE HealthCare 2022. Values based on weight.
[2] Based on GE HealthCare study of OEC Elite CFD imaging results with application of enhanced noise reduction algorithm



# Contributing to a healthier planet

**More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.**[3] As a result, we have strengthened our commitment to environmentally conscious design and we are implementing more sustainable practices across our product manufacturing, sourcing, distribution, installation, and service operations. This includes improving energy efficiency, optimizing the use of limited or rare materials, providing digitally enabled service throughout the product lifespan, and offering refurbishment and recycling options at the end of product life.

| | |
|---|---|
| **We're committed to environmental product design** | The OEC Elite CFD conforms to the international standard for environmental design, IEC60601-1-9:2007. |

[3] Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org), based on 2019 report

## Materials

GE HealthCare reviews the environmental aspects of the material supply used within our products to increase recyclability and decrease the use of hazardous substances, when possible.

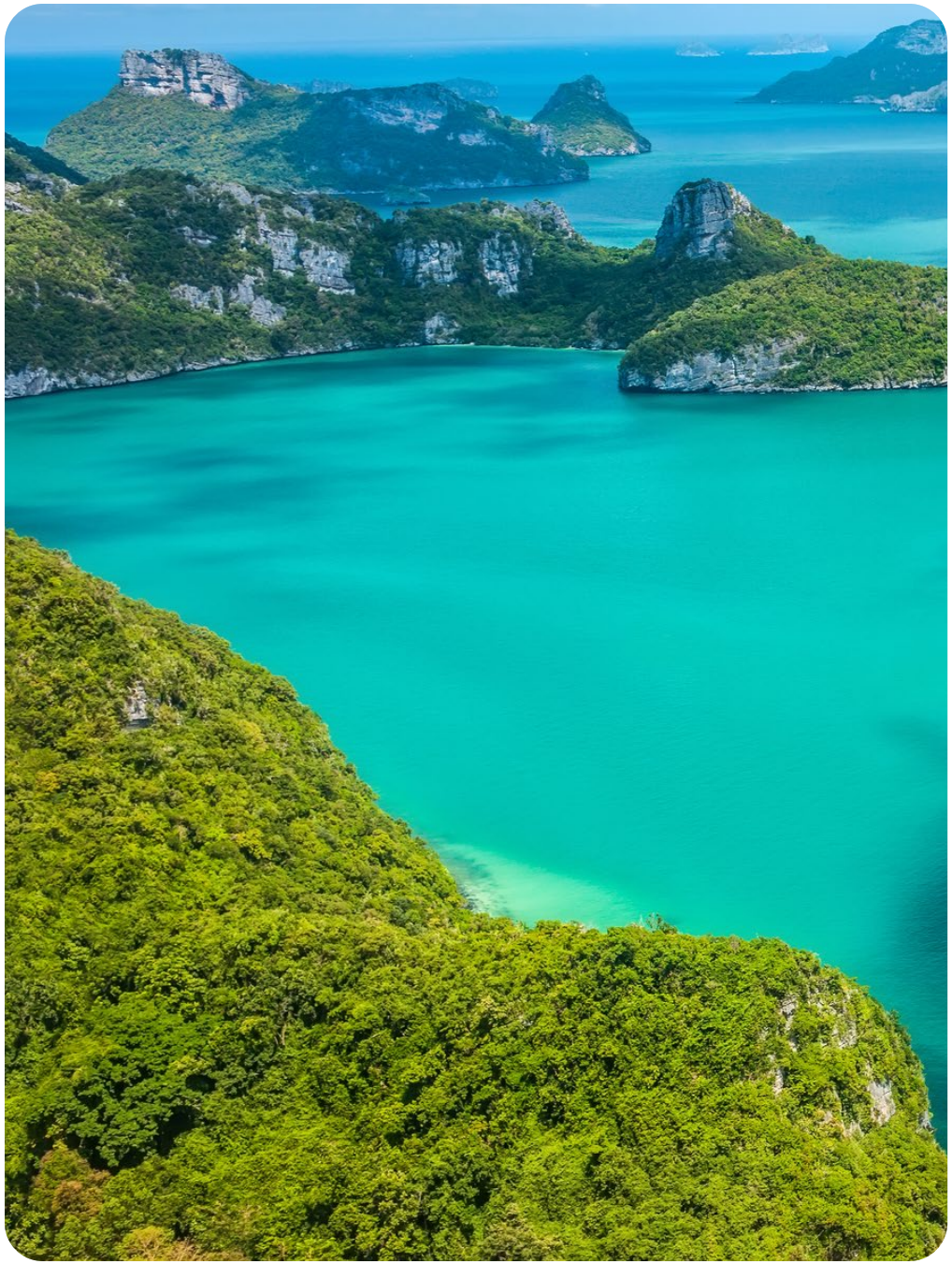
| | |
|---|---|
| **Recyclability** | We're committed to high recyclability of our products and reuse when possible. |
| | Up to 84% of the system materials in the OEC Elite CFD is recyclable.[4] |
| **Reduce the use of hazardous substances** | EU RoHS directive 2011/65/EU |
| | REACH (EC) 1907–2006 |

## Manufacturing

Through our environmental reviews, we also focus on implementing more renewable energy and reducing waste, when possible.

| | |
|---|---|
| **Renewable energy** | Our Salt Lake City manufacturing site electrical service provider continues to expand its renewable energy resources and envisions a 74% reduction of greenhouse gas emissions from 2005 levels by 2030.[5] |
| **Reducing electricity** | Continuous improvement goals in manufacturing process efficiency result in lower energy demand per unit produced. |

[4] Data on file.
[5] Source: PacifiCorp website https://www.pacificorp.com/environment/renewable-energy.html



## Packaging and distribution

GE HealthCare imaging equipment has a robust and multi-sourced supply chain for systems and spare parts across our product portfolios.

| | |
|---|---|
| **Product packaging** | Packaging is designed to optimize product transportation protection, safety, and material reuse. |
| | Up to 86% of transport packaging is made of recyclable and reusable wood and cardboard. |
| **Product transportation**[6] | +/-80% International: Air transport<br>+/-10% International: Ocean transport<br>+/-10% International, 100% USA: Truck transport |

[6] The values provided are based on product transportation and distribution during 2021.


# Product utilization

Our imaging products are designed to help enable energy efficiency through dedicated features and advanced applications to reduce the environmental impact. Ergonomic design can help to enhance health and potentially reduce environmental impacts, such as reducing waste and saving energy.

## Ergonomically designed

| | |
|---|---|
| **Patient setup and positioning** | OEC Elite CFD C-arm is designed to minimize interference with patient table or the need to adjust patient table height with low lateral height and sleek X-ray tube housing design that aids detector placement. |
| | Integrated laser aimers provided to align the detector with patient anatomy prior to taking an X-ray, minimizing unnecessary radiation exposure. |
| | OEC Elite CFD Ergo C-arm provides greater access to scan patients in hard-to-reach angles or rainbow lateral views with a multi-joint pivot arm design. |
| **Reduce staff burden** | Physical strain and effort is minimized with lightweight C-arm and workstation design, Ergo-C pivot joint, radial dial brakes, full-length C-arm handles, and 30% less force to steer (compared to OEC 9900 C-arm). |
| | Efficient with a quick boot-up time of less than a minute and Smart Connect, which enables patient data to be entered into the workstation while the C-arm is being positioned around the patient table and not yet connected. |
| | See large, clear images with a 32” 4K UHD display that easily positions for line of sight and has the ability to increase viewing perspective up to 60% with 27 inches of forward display travel. |


## Product utilization

| | |
|---|---|
| **Guidance for product utilization** | Instructions are provided for use of the equipment to minimize the environmental impact during installation, use, and operation. |
| **Reduce energy consumption during use** | Internal batteries and battery charger buffer the X-ray generator energy demand during fluoroscopy and allow the OEC Elite CFD C-arm system to operate on single-phase, cord-connected wall power. |
| **Power consumption** | Off mode: 0.25 kW·h<br>Power low: 0.45 kW·h<br>Scan mode: 0.48 kW·h |
| **24 hour energy consumption**[7] | Off mode: 6.3 kW·h<br>Power low: 10.7 kW·h<br>Scan mode: 11.6 kW·h |

[7] As measured according to COCIR X-ray Equipment Measurement of Energy Consumption, March 2014.

# End of product life

We are increasingly putting our retired products' materials back into the supply chain to maximize efficient use and minimize unnecessary waste. This circularity model enables our imaging products to extend their clinical impact through longer lifespans while reducing the environmental footprint. Additionally, we offer our customers support for upgrades and services throughout a product's lifespan, when available, to maintain optimal performance and help drive better patient outcomes.

Our refurbishment programs involve an extensive inspection and testing process, designed to bring equipment back to its original certified manufacturing specifications. If the system is not suitable for refurbishment, eligible parts are harvested for reuse after quality and performance testing, while the remaining parts are returned to dedicated recycling facilities.

| | |
|---|---|
| **Guidance for end of lifecycle** | Equipment instructions are provided to minimize the environmental impact for disposal or recycling. |
| **Upgradeable hardware and software options are provided as a solution to extend the product lifespan.** | Options may be offered to extend the product lifespan. |
| **Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.** | OEC C-arms are eligible for assessment through the refurbishment program, in which they are assessed for refurbishment, harvesting, or recycling at the appropriate time in the lifespan.[8]<br><br>95% of OEC C-arms are reused, refurbished, or recycled, extending the lifetime of each product.[8] |
| **Waste reduction** | This system is in accordance with Waste Electrical and Electronic Equipment (WEEE) regulations. |

[8] System parts are eligible for refurbishment, although whether a system is actually refurbished versus harvested for parts or otherwise recycled or reused, is dependent on the state of the system when GE HealthCare takes possession of it.

# Digitizing healthcare through transformative innovations for a more resilient tomorrow

We are committed to investing in digital capabilities that help accelerate clinical decision making, optimize imaging operations, and drive efficiencies in exam workflows, all of which can improve patient outcomes. Enabling digital transformation will further enhance our predictive and maintenance service operations for the life of your products.

We are also dedicated to driving a more resilient and sustainable future in healthcare. Many factors, including the pandemic, climate-related weather disasters, and supply-chain issues amplified this need. Managing operations through these challenges requires resilience and perseverance.

## Helping clinicians advance patient outcomes

Advanced applications and cutting-edge tools provide personalized data to drive actionable insights, helping healthcare professionals make fast, accurate clinical decisions for care pathways.

**Enable clinicians to visualize during procedures with clear images**

Numerous innovations in technology and image processing are designed into the OEC Elite CFD to provide exceptional image quality at the lowest dose, such as:

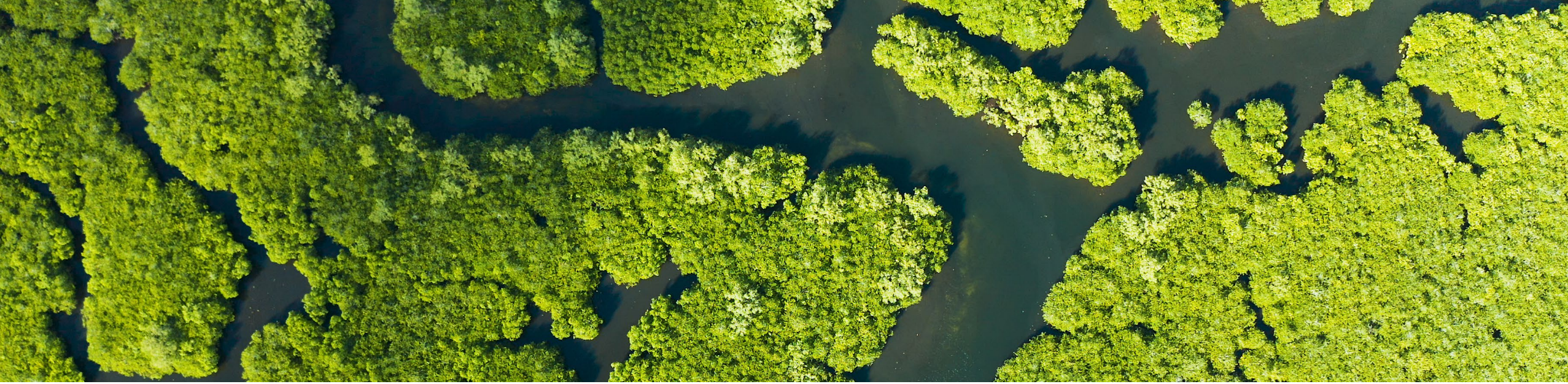
- Visualization of anatomical detail with 1.7X improved nominal resolution (at 4K display) compared to OEC Elite CFD image intensifier model;
- eNR (enhanced Noise Reduction) that automatically adjusts vascular and cardiac imaging, presenting 30% less imaging noise for an equivalent appearance of 30 kW power on a 15 kW C-arm;[9]
- MTS (Motion Tolerant Subtraction) that dynamically adjusts image quality based on presence of motion in the image in select configurations and profiles;
- Live Zoom that digitally zooms up to 4X larger during a fluoro shot, Cine run, subtraction, or roadmap while using the same dose rate as normal images and less dose compared to images in Mag mode; and
- Preset Imaging profiles designed to enhance view of anatomy based on procedure, including a Pediatric profile that automatically reduces dose by up to 50%.

[9] Based on GE HealthCare study of OEC Elite CFD imaging results with application of enhanced noise reduction algorithm.


## Optimizing imaging operations

Our advanced digital solutions are designed to increase efficiencies across the radiology spectrum without increasing the administrative and training burden on radiologists and technologists.

| | |
|---|---|
| **Reduce downtime** | System is efficient to set up with a quick boot-up time of less than a minute and Smart Connect, which enables patient data to be entered into the workstation while the C-arm is being positioned around the patient table and not yet connected. |
| **Ease of use** | In addition to less physical strain, the OEC Elite CFD C-arm user interface is intuitive with OEC recognizable icons, colors, and layout and quick access to functions during procedures, including X-ray controls, Live Zoom, Digital Pen, measurements, annotations, laser aimer, image directory, preset imaging profiles, and more. A user interface is also available on an optional rollstand for control when and where desired. |
| **Cybersecurity** | GE HealthCare's Design Engineering Privacy and Security (DEPS) process follows GDPR, HIPAA, NIST 800-53, NIST 800-30, ISO 27001, and NIST CSF requirements. |
| **Cleanability** | Our equipment is designed to be cleaned and disinfected easily. We continue to test and approve new cleaning and disinfecting agents. Visit *Cleaning.GEHealthCare.com* for updates. |



# Creating a healthy world to help enable better patient outcomes.

**GEHealthCare.com/about/sustainability**

*Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country. Commercial availability of GE HealthCare medical systems is subject to meeting local requirements in a given country or region. Not all features are included in the standard system configuration. Contact a GE HealthCare representative for more information. Intended for healthcare professionals only.*



GE HealthCare